

0321



OIPF

#2

RAW SEQUENCE LISTING

DATE: 03/21/2002

PATENT APPLICATION: US/10/038,302

TIME: 14:01:24

Input Set : N:\Crf3\RULE60\10038302.raw

Output Set: N:\CRF3\03212002\J038302.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Hillman, Jennifer L.

6 Goli, Surya K.

8 (ii) TITLE OF INVENTION: NOVEL HUMAN MITOCHONDRIAL

9 MEMBRANE PROTEIN

11 (iii) NUMBER OF SEQUENCES: 4

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.

15 (B) STREET: 3174 Porter Drive

16 (C) CITY: Palo Alto

17 (D) STATE: CA

18 (E) COUNTRY: USA

19 (F) ZIP: 94304

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Diskette

23 (B) COMPUTER: IBM Compatible

24 (C) OPERATING SYSTEM: DOS

25 (D) SOFTWARE: FastSEQ for Windows Version 2.0

27 (vi) CURRENT APPLICATION DATA:

C--> 28 (A) APPLICATION NUMBER: US/10/038,302

C--> 29 (B) FILING DATE: 04-Jan-2002

30 (C) CLASSIFICATION:

32 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: US/09/208,619

35 (B) FILING DATE:

37 (A) APPLICATION NUMBER: 08/812,645

38 (B) FILING DATE:

41 (viii) ATTORNEY/AGENT INFORMATION:

42 (A) NAME: Billings, Lucy J

43 (B) REGISTRATION NUMBER: 36,749

44 (C) REFERENCE/DOCKET NUMBER: PF-0229 US

46 (ix) TELECOMMUNICATION INFORMATION:

47 (A) TELEPHONE: 415-855-0555

48 (B) TELEFAX: 415-845-4166

52 (2) INFORMATION FOR SEQ ID NO: 1:

54 (i) SEQUENCE CHARACTERISTICS:

55 (A) LENGTH: 172 amino acids

56 (B) TYPE: amino acid

57 (C) STRANDEDNESS: single

58 (D) TOPOLOGY: linear

60 (ii) MOLECULE TYPE: protein

61 (vii) IMMEDIATE SOURCE:

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,302

DATE: 03/21/2002

TIME: 14:01:24

Input Set : N:\Crif3\RULE60\10038302.raw

Output Set: N:\CRF3\03212002\J038302.raw

62 (A) LIBRARY: BLADNOT04
63 (B) CLONE: 1318463
65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
67 Met Glu Glu Tyr Ala Arg Glu Pro Cys Pro Trp Arg Ile Val Asp Asp
68 1 5 10 15
69 Cys Gly Gly Ala Phe Thr Met Gly Val Ile Gly Gly Gly Val Phe Gln
70 20 25 30
71 Ala Ile Lys Gly Phe Arg Asn Ala Pro Val Gly Ile Arg His Arg Leu
72 35 40 45
73 Arg Gly Ser Ala Asn Ala Val Arg Ile Arg Ala Pro Gln Ile Gly Gly
74 50 55 60
W--> 75 Ser Phe Ala Val Trp Gly Gly Leu Phe Xaa Thr Ile Asp Cys Gly Leu
76 65 70 75 80
77 Val Arg Leu Arg Gly Lys Glu Asp Pro Trp Asn Ser Ile Thr Ser Gly
78 85 90 95
79 Ala Leu Thr Gly Ala Val Leu Ala Ala Arg Ser Gly Pro Leu Ala Met
80 100 105 110
81 Val Gly Ser Ala Met Met Gly Gly Ile Leu Leu Ala Leu Ile Glu Gly
82 115 120 125
83 Val Gly Ile Leu Leu Thr Arg Tyr Thr Ala Gln Gln Phe Arg Asn Ala
84 130 135 140
85 Pro Pro Phe Leu Glu Asp Pro Ser Gln Leu Pro Pro Lys Asp Gly Thr
86 145 150 155 160
87 Pro Ala Pro Gly Tyr Pro Ser Tyr Gln Gln Tyr His
88 165 170
90 (2) INFORMATION FOR SEQ ID NO: 2:
92 (i) SEQUENCE CHARACTERISTICS:
93 (A) LENGTH: 655 base pairs
94 (B) TYPE: nucleic acid
95 (C) STRANDEDNESS: single
96 (D) TOPOLOGY: linear
98 (ii) MOLECULE TYPE: cDNA
99 (vii) IMMEDIATE SOURCE:
100 (A) LIBRARY: BLADNOT04
101 (B) CLONE: 1318463
103 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
105 GCGCGGNCAG ACGNCAGCGC CATGGAGGAG TACGCTCGGG AGCCCTGCCC ATGGCGAATT 60
106 GTGGATGATT GCGGTGGAGC CTTCACTATG GGTGTCATCG GTGGCGGAGT CTTCCAGGCC 120
107 ATCAAGGGTT TCCGCAATGC CCCTGTTGGA ATTCGGCACC GGTGAGAGG TAGTGCCAAT 180
108 GCTGTGAGGA TCCGAGCCCC CCAGATTGGA GGTAGCTTCG CAGTGTGGGG GGGCCTGTTC 240
109 TNCACCATTG ACTGTGGCCT GGTGCGGCTT CGGGGCAAGG AGGATCCCCTG GAACTCTATC 300
110 ACCAGTGGAG CATTGACCGG GGCTGTGCTG GCTGCCCCGA GTGGCCCCACT GGCCATGGTG 360
111 GGCTCAGCAA TGATGGGGGG CATCCTGTTG GCCCTCATTG AGGGCGTTGG CATCCTCCTC 420
112 ACTCGCTACA CAGCCCAGCA GTTCCGAAAT GCGCCCCCAT TCCTGGAGGA CCCCAGCCAG 480
113 CTGCCCCCTA AGGATGGCAC CCCGGCCCCA GGCTACCCCA GCTATCAGCA GTACCACTGA 540
114 GGAAGCCACT GCCACCATGG GAGCTACTTC TCGGTTCCCT CCCCAGTGGT CTACCTCGAA 600
115 GGGAGGGCTG GCTCCAGTT AGCCCTGGGA CCCTCCAGAG AGGGTTTCTA TCTGT 655
117 (2) INFORMATION FOR SEQ ID NO: 3:
119 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,302

DATE: 03/21/2002

TIME: 14:01:24

Input Set : N:\Crf3\RULE60\10038302.raw

Output Set: N:\CRF3\03212002\J038302.raw

```

120      (A) LENGTH: 171 amino acids
121      (B) TYPE: amino acid
122      (C) STRANDEDNESS: single
123      (D) TOPOLOGY: linear
125      (ii) MOLECULE TYPE: protein
126      (vii) IMMEDIATE SOURCE:
127          (A) LIBRARY: GenBank
128          (B) CLONE: GI 1770564
130      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
132 Met Glu Glu Tyr Ala Arg Glu Pro Cys Pro Trp Arg Ile Val Asp Asp
133   1           5           10           15
134 Cys Gly Gly Ala Phe Thr Met Gly Thr Ile Gly Gly Gly Ile Phe Gln
135           20           25           30
136 Ala Ile Lys Gly Phe Arg Asn Ser Pro Val Gly Val Asn His Arg Leu
137           35           40           45
138 Arg Gly Ser Leu Thr Ala Ile Lys Thr Arg Ala Pro Gln Leu Gly Gly
139           50           55           60
140 Ser Phe Ala Val Trp Gly Gly Leu Phe Ser Met Ile Asp Cys Ser Met
141           65           70           75           80
142 Val Gln Val Arg Gly Lys Glu Asp Pro Trp Asn Ser Ile Thr Ser Gly
143           85           90           95
144 Ala Leu Thr Gly Ala Ile Leu Ala Ala Arg Asn Gly Pro Val Ala Met
145           100          105          110
146 Val Gly Ser Ala Ala Met Gly Gly Ile Leu Leu Ala Leu Ile Glu Gly
147           115          120          125
148 Ala Gly Ile Leu Leu Thr Arg Phe Ala Ser Ala Gln Phe Pro Asn Gly
149           130          135          140
150 Pro Gln Phe Ala Glu Asp Pro Ser Gln Leu Pro Ser Thr Gln Leu Pro
151           145          150          155          160
152 Ser Ser Pro Phe Gly Asp Tyr Arg Gln Tyr Gln
153           165          170
155 (2) INFORMATION FOR SEQ ID NO: 4:
157      (i) SEQUENCE CHARACTERISTICS:
158          (A) LENGTH: 158 amino acids
159          (B) TYPE: amino acid
160          (C) STRANDEDNESS: single
161          (D) TOPOLOGY: linear
163      (ii) MOLECULE TYPE: protein
164      (vii) IMMEDIATE SOURCE:
165          (A) LIBRARY: GenBank
166          (B) CLONE: GI 557267
168      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
170 Met Ser Ala Asp His Ser Arg Asp Pro Cys Pro Ile Val Ile Leu Asn
171   1           5           10           15
172 Asp Phe Gly Gly Ala Phe Ala Met Gly Ala Ile Gly Gly Val Val Trp
173           20           25           30
174 His Gly Ile Lys Gly Phe Arg Asn Ser Pro Leu Gly Glu Arg Gly Ser
175           35           40           45
176 Gly Ala Met Ser Ala Ile Lys Ala Arg Ala Pro Val Leu Gly Gly Asn

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/038,302

DATE: 03/21/2002

TIME: 14:01:24

Input Set : N:\Crf3\RULE60\10038302.raw

Output Set: N:\CRF3\03212002\J038302.raw

```

177      50      55      60
178 Phe Gly Val Trp Gly Gly Leu Phe Ser Thr Phe Asp Cys Ala Val Lys
179 65      70      75      80
180 Ala Val Arg Lys Arg Glu Asp Pro Trp Asn Ala Ile Ile Ala Gly Phe
181      85      90      95
182 Phe Thr Gly Gly Ala Leu Ala Val Arg Gly Gly Trp Arg His Thr Arg
183      100      105      110
184 Asn Ser Ser Ile Thr Cys Ala Cys Leu Leu Gly Val Ile Glu Gly Val
185      115      120      125
186 Gly Leu Met Phe Gln Arg Tyr Ala Ala Trp Gln Ala Lys Pro Met Ala
187      130      135      140
188 Pro Pro Leu Pro Glu Ala Pro Ser Ser Gln Pro Leu Gln Ala
189 145      150      155

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/038,302

DATE: 03/21/2002
TIME: 14:01:25

Input Set : N:\Crf3\RULE60\10038302.raw
Output Set: N:\CRF3\03212002\J038302.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos.74
Seq#:2; N Pos. 7,14,242

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/038,302

DATE: 03/21/2002

TIME: 14:01:25

Input Set : N:\Crf3\RULE60\10038302.raw

Output Set: N:\CRF3\03212002\J038302.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:64